

Claims

We claim:

- 5 1. A receiver digital circuitry, comprising:
- digital down-converter circuitry configured to mix a digital input signal provided by a
receiver analog circuitry with a digital intermediate frequency (IF) local oscillator
signal to generate a digital down-converted signal; and
digital filter circuitry configured to filter the digital down-converted signal to generate a
10 filtered digital signal,
wherein the digital filter circuitry provides a notch at a frequency that corresponds to a
residual DC offset of the receiver analog circuitry.
- 15 2. A radio-frequency (RF) apparatus, comprising:
- a first circuit partition, comprising receiver analog circuitry configured to produce a
digital receive signal from an analog radio-frequency signal; and
a second circuit partition, comprising receiver digital circuitry configured to accept the
digital receive signal, wherein the first and second circuit partitions are partitioned
so that interference effects between the first circuit partition and the second circuit
20 partition tend to be reduced.